

## **OIL ANALYSIS REPORT**

# CHICAGO 95TH TAYLOR T520M 452-11 (S/N S ED 34772)

Component **Diesel Engine** 

NAPA Motor Oil 15W40 (--- GAL)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

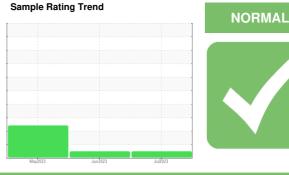
All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

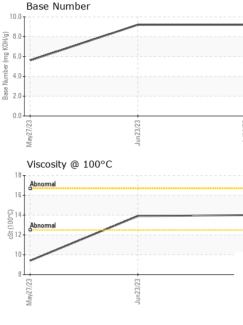
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

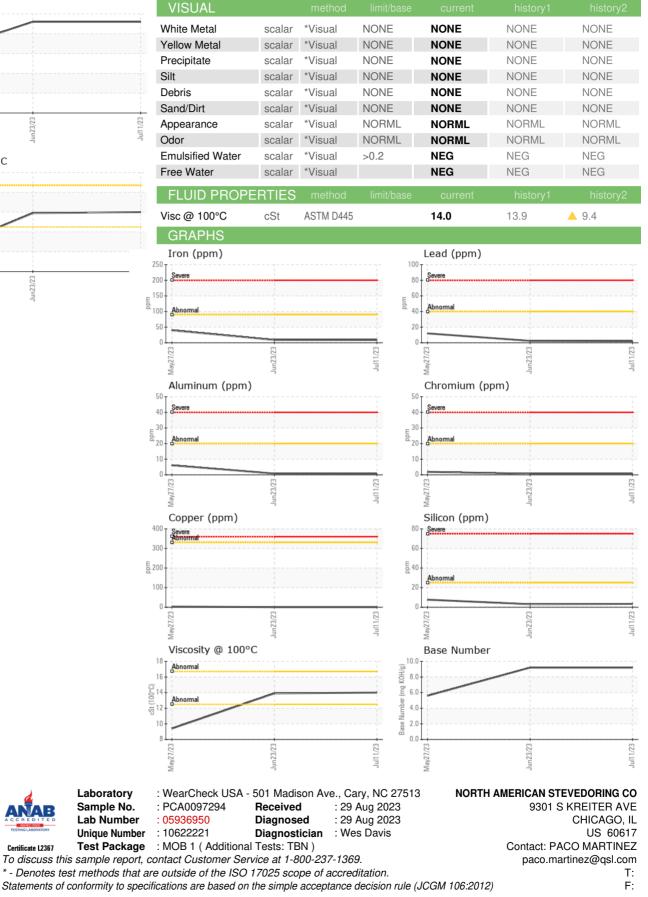


May2023 Jun2023 Jun2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0097294	PCA0097286	PCA0097289
Sample Date		Client Info		11 Jul 2023	23 Jun 2023	27 May 2023
Machine Age	hrs	Client Info		0	14252	14143
Oil Age	hrs	Client Info		0	250	250
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	14.2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	9	9	40
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>2	<1	<1	<1
Titanium	ppm	ASTM D5185m	>2	2	2	2
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	<1	6
Lead	ppm	ASTM D5185m	>40	2	2	12
Copper	ppm	ASTM D5185m	>330	<1	<1	3
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		5	4	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		44	46	46
Manganese	ppm	ASTM D5185m		<1	<1	3
Magnesium	ppm	ASTM D5185m		730	790	673
Calcium	ppm	ASTM D5185m		1069	1179	1028
Phosphorus	ppm	ASTM D5185m		884	965	791
Zinc	ppm	ASTM D5185m		1088	1190	998
Sulfur	ppm	ASTM D5185m		3265	3570	2912
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	3	8
Sodium	ppm	ASTM D5185m		4	2	10
Potassium	ppm	ASTM D5185m	>20	12	4	23
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.5	0.7
Nitration	Abs/cm	*ASTM D7624	>20	5.4	5.8	13.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	18.1	24.9
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9	13.2	25.1
Base Number (BN)	mg KOH/g	ASTM D2896		9.2	9.2	5.6
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Certificate L2367